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(54) Title: LYtic PEPTIDES, USE FOR GROWTH, INFECTION AND CANCER**(57) Abstract**

Novel synthetic lytic and proliferative peptides were designed and constructed to encompass the structural features associated with lytic and proliferative activity. These compounds, along with the human β fibrin signal peptide share structural and functional properties of the known lytic peptides. These peptides are effective agents in the treatment of microbial infections including gram negative and gram positive bacteria, fungus, virus, yeast, and protozoa, in the lysis of cancer cells, and in the proliferation of fibroblast and lymphocytes. Additional functions include synergy and use as general adjuvants and in the enhancement of wound healing.